Principle of operation

Intended use

XO Practice Operating System (XO POS) has been designed to enable you to control everything you need during treatment.
You can use the unit foot control to manage unit instruments and other functions.
With no need to use a mouse or keyboard, you can keep your eyes and hands focused on your patient's mouth.
Nor will you need extra foot controls or peripherals.

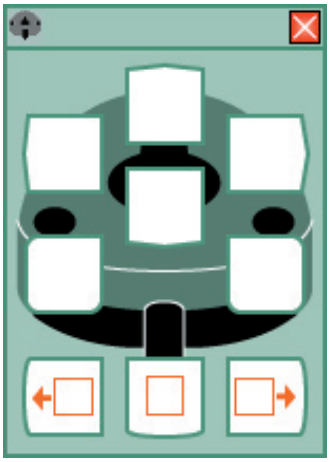
XO POS performs two main services:
1. XO POS simply and easily controls all unit instruments while you treat your patients, so you can work with exactly the data you need, when you need it.
2. When you are not working with unit instruments, XO POS controls all other functions associated with the treatment including the unit, patient chair, digital imaging and external instruments.

Starting XO POS

Open the Microsoft Windows "start" menu / Programmes / "XO CARE" / "XO Practice Operating System" / "Start XO Practice Operating System"

Navigating XO POS

The main tool for navigating XO POS is XO 4 Unit Foot Control and XO Bar.
XO Bar displays the selectable programmes.
Select the desired program by moving the orange marker with XO Foot Control.

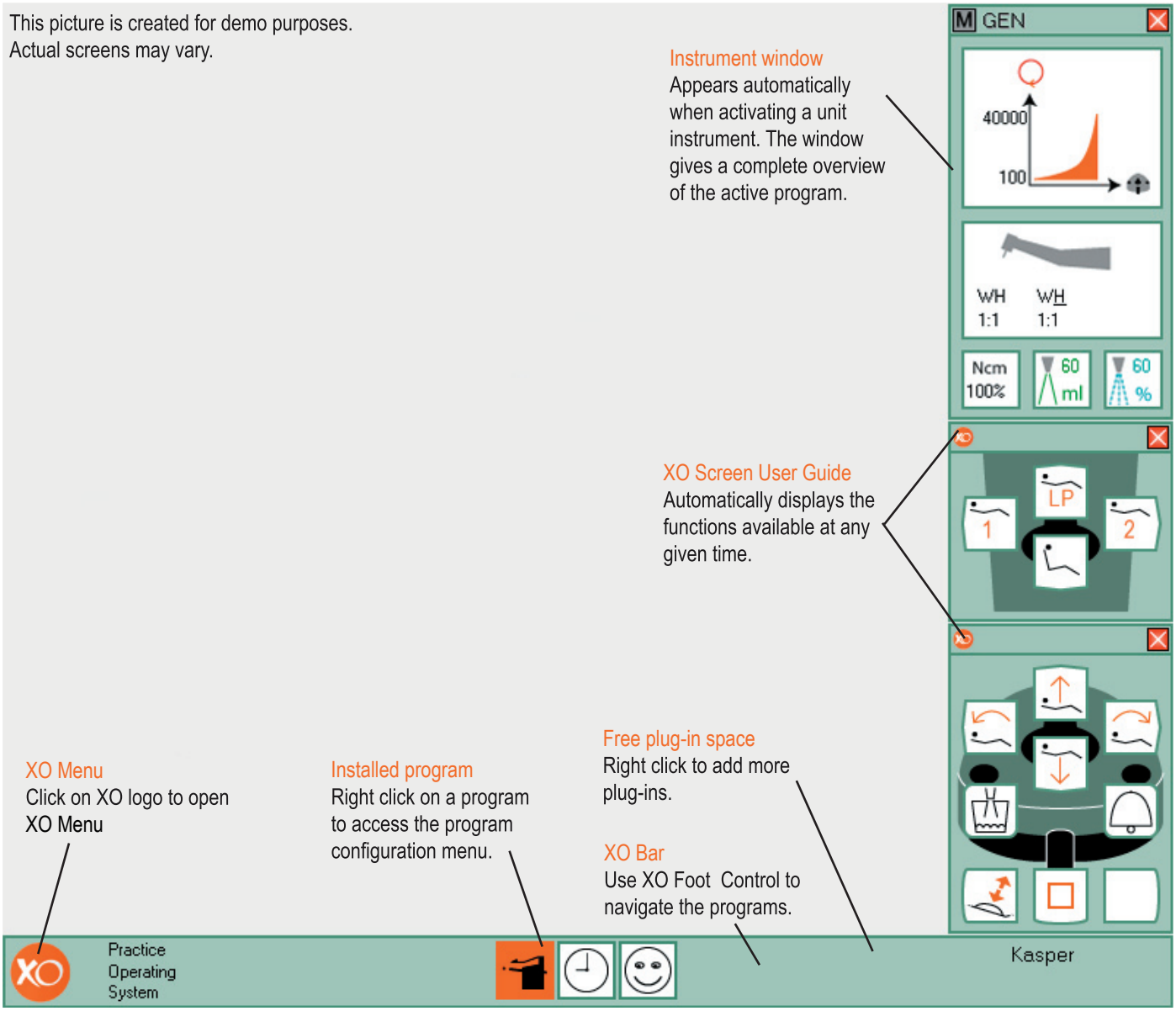


Move right
Move left
Select / Deselect

When a program is activated the corresponding cell becomes orange and XO Screen User Guide displays the functions available.

NOTE! If XO Foot Control is not within operating distance you can also operate XO POS by clicking directly on XO Screen User Guide with the mouse.

The XO POS user interface



Instruments icons

Navigation in XO POS is primarily based on icons.
It is a god idea to get familiarized with them.
These are typical examples of XO POS icons:

Motor and Turbine

Start rotation clockwise

Start rotation counter clockwise

Spray selection

Enable / disable XO Chip Blow

Increase spray water / irrigation level

Decrease spray water / irrigation level

Increase maximum speed

Decrease maximum speed

Ultrasonic scaler

Power on Scaler

Irrigation on/off Scaler

Increase spray water / irrigation level

Decrease spray water / irrigation level

Increase maximum power / Scaler

Decrease maximum power / Scaler

Light curing lamp

Start LC Lamp

Increase exposure time / LC Lamp

Decrease exposure time / LC Lamp

Video

Still / Live mode Video Camera

Save image to memory - Video camera

Unit and Chair icons

Chair functions

Move backrest down

Move backrest up

Move seat down

Move seat up

Go to position 1

Go to position 2

Go to exit position

Go to last position

Inflate/deflate lumbar support

Unit functions

Start/stop glasfiller

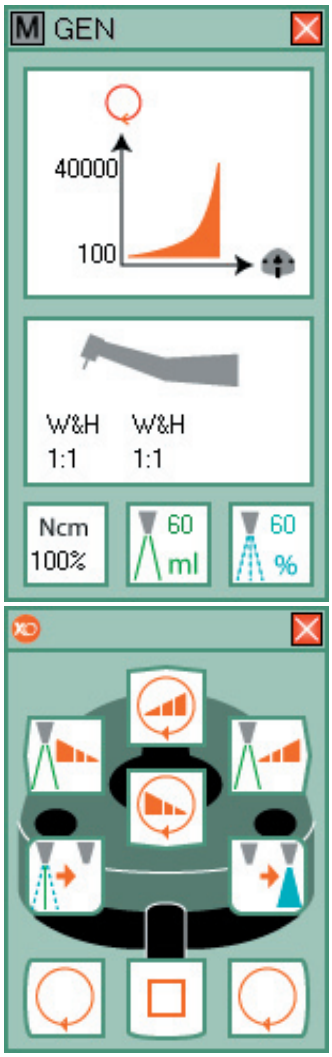
Flush bowl

Operating lamp on/off

Start/stop big suction

Start/stop small suction

Micro Motor



Lift micro motor forward and control it with XO Foot Control.

See relevant data on screen and display.

Run motor clockwise with or counter clockwise with in the range specified by the active program.

See maximum speed on screen and on display when foot control is not activated. See actual speed on display when motor is running.

Change spray selection with : water & air, air only or no spray.

Enable/disable XO Chip Blow with (automatic chip blow after stop of motor with spray water).

Choose between 3 levels of spray water:

Increase level with .

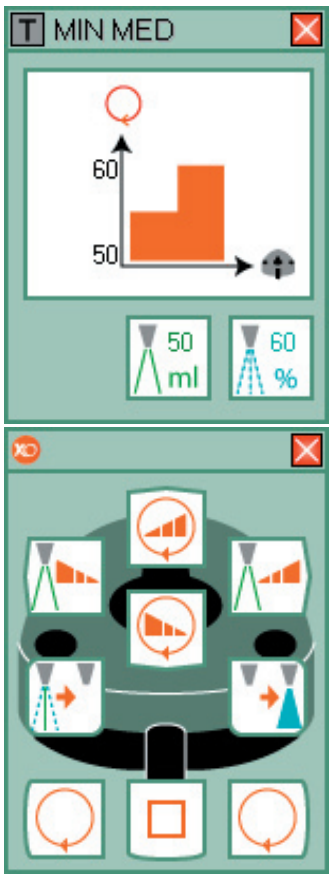
Decrease level with .

Choose between 3 maximum speed levels:

Increase level with .

Decrease level with .

Turbine



Lift turbine forward and control it with XO Foot Control.

See relevant data on screen and display.

Start/stop turbine with or .

Change spray selection: water & air or no spray with .

Enable/disable XO Chip Blow with .

Choose between 3 levels of spray water:

Increase level with .

Decrease level with .

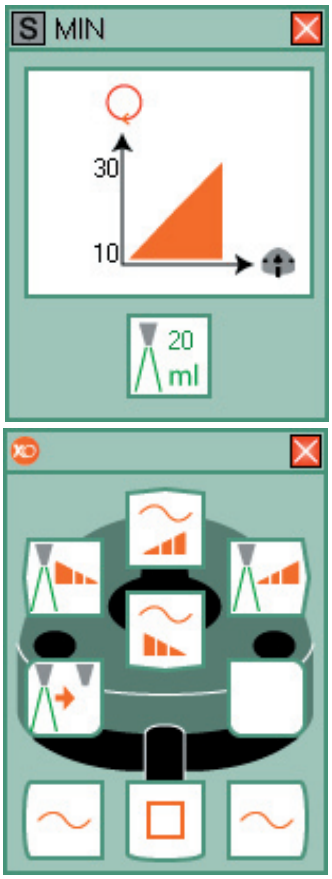
Choose between 3 maximum speed levels:

Increase level with .

Decrease level with .

See current speed (in % of maximum) on display.

Ultrasonic Scaler



Lift scaler forward and control it with XO Foot Control.

See relevant data on screen and display.

Start/stop oscillation (power) of scaler with or .

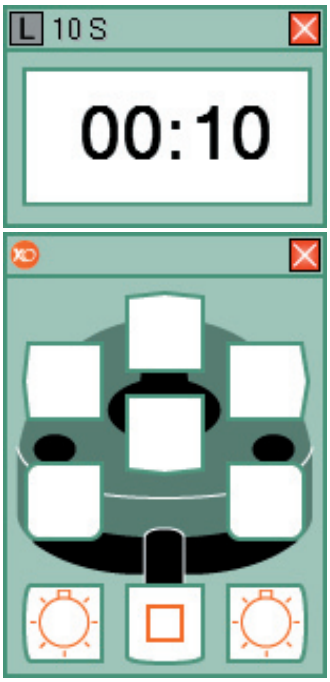
Switch cooling irrigation on/off with .

Choose between 3 levels of irrigation:
Increase level with .
Decrease level with .

Choose between 3 power settings:
Increase level with .
Decrease level with .

See current power setting (in % of maximum) on display.

Light Curing Lamp



Lift light curing Lamp forward and control it with XO Foot Control.

See current exposure time on screen and on display before foot control is activated.

Start curing process with or .

See elapsed curing time on screen and display during the process.

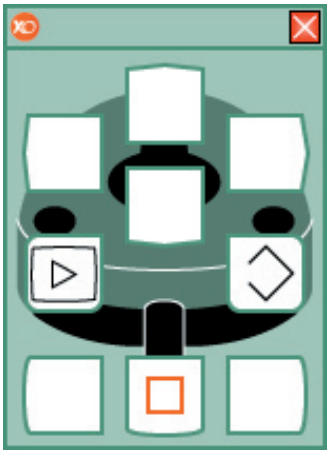
Choose between 3 different exposure times:
Increase with .
Decrease with .

You will hear a beep after each 10 seconds.

When the curing expires you will hear a sound.

10 seconds after the curing expires the timer window will disappear automatically.

Intraoral Video Camera



Unlike all other unit instruments you can use the video camera even when another instrument is active.

Lift camera forward and display a video image on a screen.

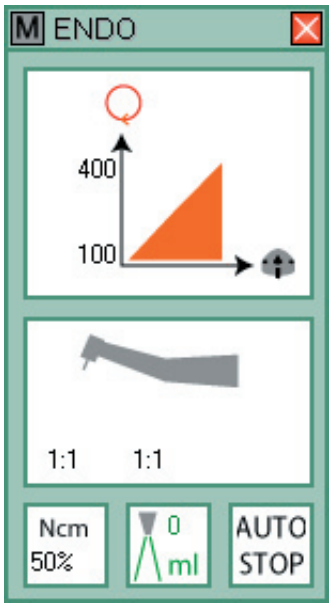
Control video camera with foot control when no other instruments are active.

Toggle between “still” and “live” mode with .

Save a “still” image to memory with .

Please note that the functions available vary depending on the software used to display the video.

Endo motor program



Lift micro motor forward.
On the XO Bar select “ENDO”. The Endo program is now activated.

See relevant data on screen and display.

Run motor clockwise with or counter clockwise with in the range specified by the active program.

See maximum speed on screen and on display when foot control is not activated. See actual speed on display when motor is running.

Choose between 3 maximum speed levels:
Increase level with .
Decrease level with .

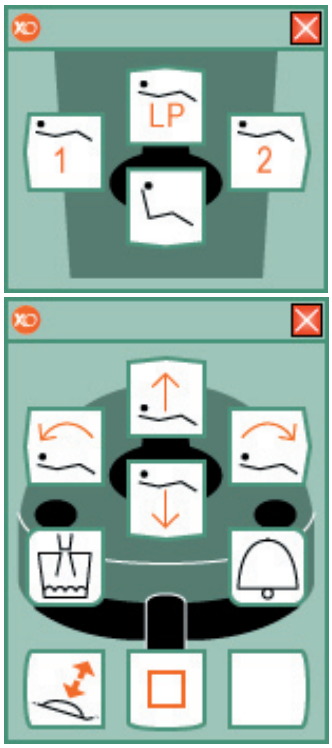
Adjust torque level:
Increase level with .
Decrease level with .

Enable or disable “AUTO STOP” with .

By default the ENDO program is protected by “Safety mode”.
To exit select then .

Unit & Chair cell selected

All unit instruments rest

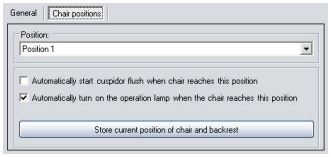


Unit & Chair cell operates the basic functions of XO 4-6 Unit.
The Unit & Chair cell is only available when all instruments are resting.

To change the standard settings right click on the Unit & Chair cell and select.

Programming chair positions

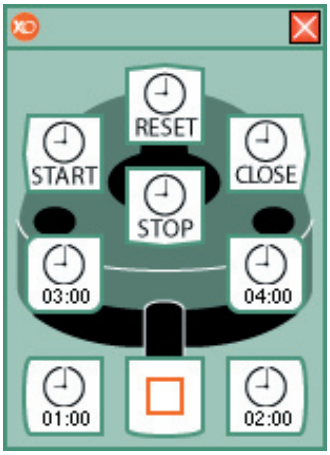
Right click the Unit & Chair cell. From the menu select “Configuration” / “General configuration”.
“XO 4 Unit plug-in options” window appears.


General
Chair positions
Position:
Position 1
Automatically start cuspidor flush when chair reaches this position
Automatically turn on the operation lamp when the chair reaches this position
Store current position of chair and backrest

Select “Chair positions”.
From the “positions” drop-down menu select the position to programme. Use XO Foot Control to move the chair to the desired position. Press “Store current position of chair and backrest”.
The programming is now complete.

Timers & Stopwatch cell selected

All unit instruments rest



The Timers & Stopwatch cell allows you to control up to 4 configurable timers and a stopwatch.

Using the Timer

Timer icon

The timestamp (20:00) on the icon shows the countdown time in minutes and seconds.
Use XO 4 Foot Control to start the countdown.
A timer window will appear.

When the countdown is finished the unit will play an alarm sound. The timer window disappears automatically after 10 seconds.

To adjust the timers right click on the timer cell on XO Bar and choose / “Configuration” / “General configuration”.
Set each of the 4 timers to the desired value.

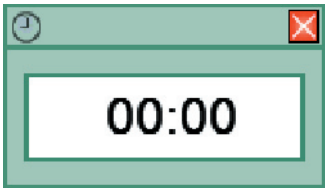
Using the Stopwatch

Start stopwatch

Stop stopwatch

Reset stopwatch

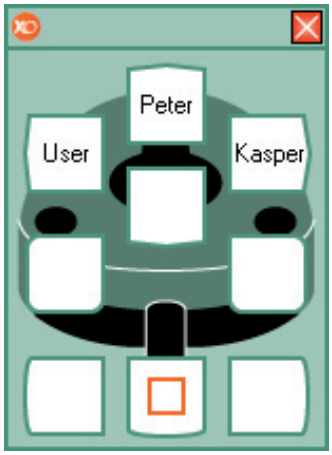
Use XO 4 Foot Control to start the stopwatch.
The stopwatch window will appear.



You can stop and restart a running stopwatch as many times as desired.
Reset the stopwatch by pressing the reset button.

User Management cell selected

All unit instruments rest



The User Management cell allows you to switch between different XO POS users without using keyboard or mouse.

XO POS handles up to 6 users, each with a complete set of individual settings.

Changing users

Select the User Manager Plug-In. Look at XO Screen User Guide and activate the XO Foot Control function corresponding to the user you wish to switch to.
Allow up to 10 seconds for XO POS to reconfigure XO 4 Unit.

Instrument activation curves

Activation curves can be used for: motor, turbine and scaler instruments. XO POS gives the option of 4 different activation curves:

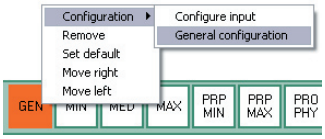
Exponential

Linear

One step

Two step

To change the activation curve lift the instrument forward and right click on the program you wish to change.



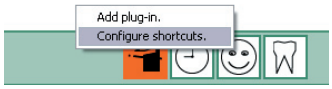
Select / “General configuration” / “Speeds, torque & contra angle” / “Activation curve”. Select activation curve from the list.

On the page “Speeds, torque & contra angle” the maximum and minimum speed values can be set.
The “Minimum speed” value defines the start speed of the instrument.
The “Maximum speed levels” fields define the 3 maximum speeds.

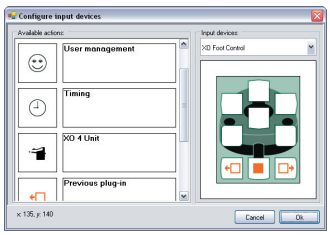
Shortcuts

Shortcuts allows you to change program/plug-in with just 2 clicks and you do not need to look at the screen!

To create a shortcut use the mouse to right click on a free spot on XO Bar.



Select “Configure shortcuts”. The shortcut configuration will now appear.



From the list “Available actions” select the action to which you wish to create a shortcut. Use the mouse to drag the action symbol to the desired location on XO Foot Control palette on the left. Click “OK” to save and exit.

Configuration of XO Bar

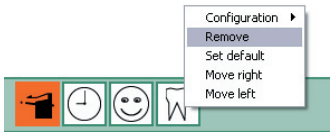
A core element in XO POS system is XO Bar (see front page).

XO Bar facilitates the following functions.

Create program:

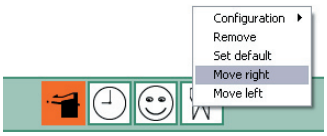
Right click on an empty spot on the XO Bar (green area). Chose “add plug-in”. Select the desired plug-in form the list.

Remove program:



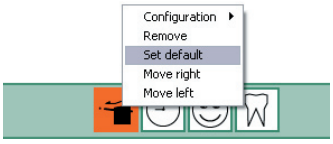
Right click on the program to remove. Select “Remove” from the menu.

Rearrange programs:



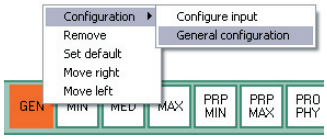
To rearrange the programs on XO Bar right click on the program to move and select “Move Right” or Move Left”.

Set default program



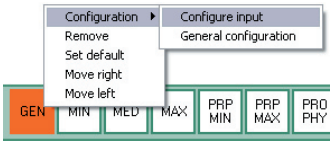
The default program is the program first available when XO POS is started.
To set the default program right click on the program. Select “Set default”.

Access the program configuration mode



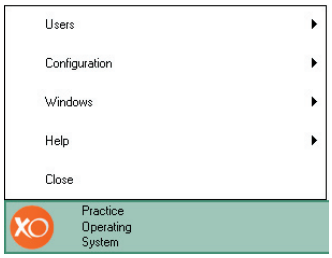
Right click on the program to be changed. Select “Configuration” / “General Configuration”. The configuration window will now appear.

Access the input configuration mode



Right click on the program to be changed. Select “Configuration” / “Configure input”. The input configuration window will now appear.

Access XO Menu



To access the XO menu click on the XO logo on the left side of XO Bar.

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Version 2004-12-01.
XO POS software version 1.1.
XO is a registred trade mark.
Practice Operating System (POS) ™

Please note:

1. In case of connection problems check that PC and XO 4 Unit is switched on and that the RS 232 cable connection is intact.

2. If the connection from XO 4 Unit to PC fails, the unit will automatically return to XO 4-6 mode.

3. If correct operation of the PC cannot be verified please shutdown the PC and run the unit in XO 4-6 mode. Contact your PC supplier.

4. If an error occurs please check your installation and then restart XO 4 Unit and XO POS. If the problem still occurs contact your supplier. Do not run XO POS until the problem is solved.

Warning
Please be aware that running processor intensive applications in combination with XO POS can slow down the system significantly and might cause XO POS to malfunction. Always make sure that your PC hardware is scaled according to the applications installed.

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